

Dolby Digital and DTS A/V Receiver

DENON**AVR-681**

Bringing the Excitement of Home Theater Closer to Your Home

The AVR-681 A/V receiver lets you enjoy home theater entertainment through a wealth of easy-to-use functions and superior sound quality. It provides five high-powered channels of 90 watts each and of course supports Dolby Digital and DTS, to give you the scintillating experience of cinematic surround sound in your own home. Even if you have only two speakers, one for each stereo channel, the AVR-681 includes a Virtual Surround mode that still lets you feel wrapped up in sound as you would in a real theater.



Personal Memory Plus

■ Dolby Digital and DTS Decoders

Equipped with both Dolby Digital and DTS 5.1 channel decoding, the AVR-681 provides thrilling surround sound with the thousands of Dolby Digital and DTS encoded DVDs, as well as the growing library of DTS 5.1 channel music recordings available on CD.

■ Fully Discrete, Equal Power Five Amplifier Channels, 90 Watts Each

Front	90 W + 90 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	90 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround	90 W + 90 W	(6 ohms, 1 kHz, 0.7 % THD)

For optimum Dolby Digital and DTS reproduction, the AVR-681 features high quality, wideband audio amplification, providing 90 watts power output for each of the five main channels. A large capacity power supply includes a high current power transformer along with discrete power output devices on all five amplifier channels for highest dynamic range and superb reproduction clarity.

■ 5 Channel Stereo Mode

DENON's exclusive 5 Channel Stereo mode provides superb surround sound with conventional two channel music and video sources. Hear exciting surround sound from all five speakers with your favorite two channel music sources such as CD, tape, stereo radio and stereo video sources.

■ Virtual Surround Mode

Surround yourself with sensational 3D soundfield envelopment using just one pair of speakers. The AVR-681's Virtual Surround mode provides a dramatic psychoacoustic surround sound effect, using two speakers with Dolby Digital 5.1 encoded sources.

■ DENON DSP Surround Modes Add Listening Excitement

Put yourself in the middle of your favorite concert hall and music environments with DENON's DSP acoustic environment simulation modes. These DSP modes add spacious surround sound enhancements to your favorite music and video sources, and include these distinctly different sounding effects:

- | | |
|---------------------|---------------|
| 1. 5 Channel Stereo | 5. Video Game |
| 2. Virtual Surround | 6. Matrix |
| 3. Rock Arena | 7. Mono Movie |
| 4. Jazz Club | |

■ Supports Next Generation High Resolution Formats

Future system upgrade capability is provided with the AVR-681's 6 Channel External Input feature. For next generation high resolution multi-channel audio formats such as DVD-Audio and SACD, the 6 Channel External Input is equipped with a wideband frequency response extending to 100 kHz. In addition, the digital inputs support high resolution 24 bit, 96 kHz stereo PCM soundtracks, available on selected audiophile DVD music releases.

■ "S" and Composite Video Switching

Three sets of composite video (coaxial jack) and three sets of "S"-video terminals are provided (TV, VCR and DVD inputs), allowing a full complement of video sources to be switched and routed to the monitor TV.

■ Front A/B Speaker Terminals

Two sets of speaker terminals are provided for the main (left and right) speakers. This allows the use of a second pair of stereo speakers in another room in the home.

■ Versatile Input & Output Terminals

For maximum system flexibility, the AVR-681 is provided with an abundance of audio and video input and output terminals. Two assignable digital inputs, one optical and one coaxial, can be configured according to your system's component output capabilities. The AVR-681 provides five sets of analog inputs, along with three sets of video inputs, for total system connection flexibility.

• Audio Inputs

6 Analog Inputs	CD, TUNER, DVD/VDP, TV/DBS, VCR, MD/TAPE
6 Analog EXT. Input	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
1 Digital (Optical) Input	OPTICAL X 1
1 Digital (Coaxial) Input	COAXIAL X 1

• Audio Outputs

1 Analog PRE OUT Terminals	SUBWOOFER
2 Analog REC OUT Terminals	VCR, MD/TAPE

• Video Inputs

3 Composite Inputs	DVD/VDP, TV/DBS, VCR
3 S-Video Inputs	DVD/VDP, TV/DBS, VCR

• Video Outputs

2 Composite Outputs	VCR, MONITOR
2 S-Video Outputs	VCR, MONITOR

■ Personal Memory Plus, for Easy Operation

The AVR-681 includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.

■ Audiophile Quality Speaker Terminals

In addition to accepting bare wire or pin terminations, the front main speaker terminals (left, center, and right) can also accept banana-plug terminals for full compatibility with high grade speaker cables, along with easy connection capability.

■ Multi-Function Preset Memory Remote Controller

The supplied system remote controller features a large selection of remote control codes to operate other components in your home theater system, including codes for selected DENON models, along with remote control codes from other manufacturers. The most frequently used buttons are laid out separately for TV, VCR and DVD, for maximum ease-of-use.

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V amplifiers, the AVR-681 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-681 to suit your own home theater and enhance operating ease. The adjustments are easy to make via a dialog format on the fluorescent display on the front panel.

■ Frequency Synthesis Tuning

- 40-Station AM/FM Random Preset Memory Tuning
- Auto Preset Memory

Specifications

■ Power Amplifier Section

Rated output	*THD figures are power amp stage values.
Front	90 W + 90 W (6 ohms, 1 kHz, 0.7 % THD) 60 W + 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	90 W (6 ohms, 1 kHz, 0.7 % THD) 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	90 W + 90 W (6 ohms, 1 kHz, 0.7 % THD) 60 W + 60 W (8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

■ Preamplifier Section

Input sensitivity/Impedance	CD, DVD/VDP, TV/DBS, VCR, MD/TAPE, FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER	200 mV/47 kohms
Output level/Load Impedance	SUBWOOFER	1.2 V/10 kohms
	MD/TAPE MONITOR, VCR	200 mV/47 kohms
Frequency response	10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On)	
Signal-to noise ratio	98 dB (A-weighting) (Tone Defeat On)	
Tone control	Treble: ±10 dB at 10 kHz Bass: ±10 dB at 100 Hz	

■ FM Section

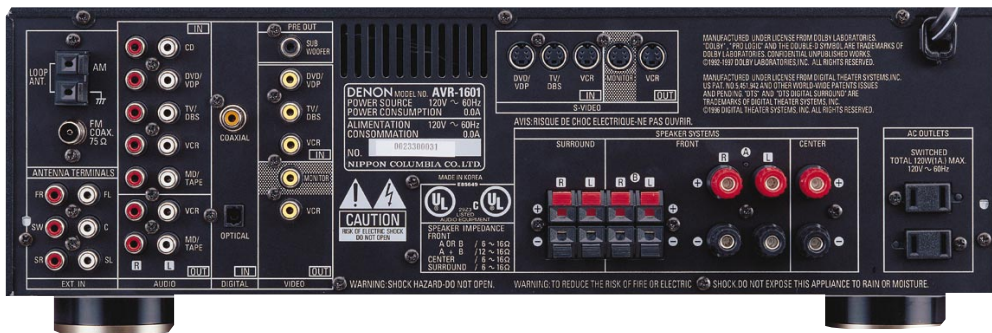
Tuning frequency range	87.5 - 107.9 MHz
Usable sensitivity	1.0 μV (11.2 dBf)

■ AM Section

Tuning frequency range	520 - 1710 kHz
Usable sensitivity	18 μV

■ General

Power supply	AC 120 V, 60 Hz
Power consumption	3.7 A
Dimensions	434 (W) x 147 (H) x 417 (D) mm 17.1" (W) x 5.8" (H) x 16.4" (D)
Weight	9.5 kg, 20.9 lbs



*Design and specifications are subject to change without notice.

**Dolby, "Dolby Digital", "Pro Logic", and the double-D device are registered trademarks of Dolby Laboratories Licensing Corporation.

*DTS is registered trademarks of DTS Technology.

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